

Scott M. Matheson
Governor



James O. Mason, M.D., Dr.P.H.
Executive Director
801-533-6111

DIVISIONS

Community Health Services
Environmental Health
Family Health Services
Health Care Financing
and Standards

OFFICES

Administrative Services
Health Planning and
Policy Development
Medical Examiner
State Health Laboratory

STATE OF UTAH
DEPARTMENT OF HEALTH

DIVISION OF ENVIRONMENTAL HEALTH
150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110

Alvin E. Rickers, Director
Room 426 801-533-6121

533-6146

September 2, 1980

WATER POLLUTION CONTROL
DESIGN/EVALUATION
PLANNING
MONITORING
ENFORCEMENT

Rusty Lundberg
Environmental Engineer
Geokinetics Inc.
582 North Vernal Ave.
Vernal, Utah 84070

RE: Construction Permit
Wastewater Evaporation Pond

Dear Mr. Lundberg:

Geokinetics Inc. proposal to construct an evaporation pond for the in-situ retort pilot project has been reviewed. The Plans appear to conform with the Code of Waste Disposal Regulations and a construction permit is hereby issued subject to the following conditions:

1. Analyses from monitoring well samples located in the vicinity of the retort and wastewater pond should be submitted to this office. Approximately 12 monitoring wells will be located around the retort and approximately 8 monitoring wells will be located around the pond.
2. The emergency overflow pipe should be located on the opposite side of the pond from the inlet pipe.
3. It is recommended that rip rap be placed on the inside of the dike where the inlet discharges into the pond.
4. After the project is complete the pond must not be abandoned until the water has completely evaporated from the pond and the residue is appropriately disposed of.
5. Activation of the emergency overflow device will constitute a violation of the construction permit. The pond should therefore be monitored very closely and any expansion should be planned in advance prior to the water level approaching overflow conditions. Approval for such must be issued by this office following a review of the plans and specifications, prior to construction.

RECEIVED

NOV 24 1980

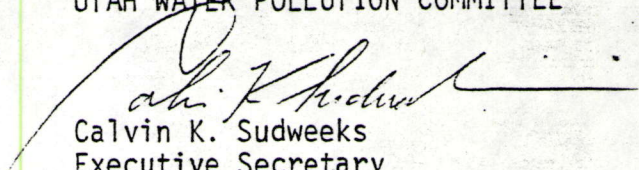
DIVISION OF
GAS & MINING

6. It is also our understanding that the inlet and overflow lines are to be 4 inches in diameter.

The evaporation pond will have a surface area of approximately 1.43 acres. The pond bottom will be lined with 35 mil thick CPR liner. Based on an evaporation rate of 24 inches per year the pond should adequately contain the wastewater flow of approximately 110 barrels per day for the duration of the 26 month project. The wastewater will consist of condensed steam, perched water and water separated from the product in the retorting operation. The water will have a TDS concentration of 22,000 gm/l. If you have any further questions please contact us.

Sincerely,

UTAH WATER POLLUTION COMMITTEE



Calvin K. Sudweeks
Executive Secretary

RLR:laf

cc: Uintah District Health Department